

ABSTRACT

The device is a four-dimensional gyroscope, demonstrating the connection between the translational and the rotational inertia, which leads to the violation of the Momentum Conservation Law of the center of masses during its absolute elastic collision with the wall. For the proof of the violation of one of the basic Laws of Classic Mechanics the device is equipped with the scientific-research complex, that allows to observe double, triple, etc collisions of the four-dimensional gyroscope, as well as to perform comparison of the theoretical calculations with the experimental data.